CONTENTS OF VOLUME 26

Vol. 26, No. 1

Editorial v

Review

T. Cserháti and **M. Szögyi** 1 Interaction of phospholipids with proteins and peptides. New advances IV

Minireview

H. D. Griffin and **C. Goddard** 19 Rapidly growing broiler (meat-type) chickens: their origin and use for comparative studies of the regulation of growth

General Papers

Lise Tremblay and **Richard Beliveau** 29 Protein tyrosine phosphorylation in normal rat tissues

Mahmoud Balbaa, Max Blum and **Theo Hofmann** 35 Mechanism of pepsin-catalyzed aminotranspeptidation reactions

Toshiaki Nikai, Yumiko Komori, Akihito Ohara, Satoru Yagihashi, Yasushi Ohizumi and **Hisayoshi Sugihara** 43 Characterization and amino-terminal sequence of phospholipase A_2-II from the venom of *Agkistrodon bilineatus* (common cantil)

Daniel C. Rule 49 Effects of dietary fatty acid composition on glycerophosphate acyltransferase activity in rat adipose tissue and liver

Vibeke Bech Thøgersen, Lene Heickendorff and **Thomas Ledet** 55 A quantitative method for analysis of radiolabelled proteoglycans synthesized by cultured human arterial smooth muscle cells

Semra Kocabivik and **Michael H. Perlin** 61 Amino acid substitutions within the analogous nucleotide binding loop (P-loop) of aminoglycoside 3′-phosphotransferase-II

John R. D. Mitchell and **E. David Saggerson** 67 The response of brown adipose tissue mitochondrial glycerolphosphate acyltransferase to cold-exposure in hypothyroidism, after adrenalectomy and after treatment with cycloheximide

Frances M. Kelleher, V. P. Bhavanandan and **Vernon N. Reinhold** 73 The formation of a dimeric product of raffinose by the action of galactose oxidase

Aye-Kyaw, San-Aye, Tin-Win, Hla-Pe and **Mya-Maung** 79 Purification, characterization and biological activities of phospholipase A from Russell's viper (*Vipera russelli*) venom

Ryoichi Yamaji, Kazutaka Miyatake, Toshiki Enomoto, Hiroshi Inui, Shigeru Shigeoka, Shozaburo Kitaoka and **Yoshihisa Nakano** 85 Effect of thiamin on the content of fructose 2,6-bisphosphate in *Euglena*

Claudette Pelassy, Jean-Philippe Breittmayer, Michel Ticchioni and **Claude Aussel** 93 Effect of thimerosal on cytosolic calcium and phosphatidylserine synthesis in Jurkat T cells

Francois van Jaarsveld, Ryno J. Naudé, Willem Oelofsen and **James Travis** 97 The isolation and partial characterization of α_2-macroglobulin from the serum of the ostrich (*Struthio camelus*)

Chie Kohchi, Katsuo Noguchi, Yoshiyuki Tanabe, Den-ichi Mizuno and **Gen-Ichiro Soma** 111 Constitutive expression of TNF-α and -β genes in mouse embryo: roles of cytokines as regulator and effector on development

Tomohiro Yano, Gaku Ishikawa and **Tomio Ichikawa** 121 Comparative study on factors regulating the level of oxidative stress toward pulmonary nuclei in two different strains of mice

Yohko Fujimoto, Toshiki Sumiya, Masahide Tsunomori, Hiroko Nishida, Satoru Sakuma and **Tadashi Fujita** 127 Effect of 13-hydroperoxy-9,11-octadecadienoic acid (13-HPODE) on arachidonic acid metabolism in rabbit platelets

Ryuichi Moriyama, Yuji Nagatomi, Fumihiko Hoshino and **Shio Makino** 133 Amino acid sequences around exofacial proteolytic cleavage sites of band 3 from bovine and porcine erythrocytes

Alison E. Page and **Michael J. Warburton** 139 Purification and characterization of a novel tyrosyl-aminopeptidase from human osteoclastomas

Vol. 26, No. 2

Minireview

Helga Selter and **Mathias Montenarh** 145 The emerging picture of p53

General Papers

Gloria I. Lucchesi and **Carlos E. Domenech** 155 A simple and reliable method for the purification of *Pseudomonas aeruginosa* phospholipase C produced in a high phosphate medium containing choline

M. Curto, M. Piccinini, S. Mioletti, M. Mostert, R. Bruno, M. P. Ricciardi and **M. T. Rinaudo** 163 Levels of carnitine and glycogen in rabbit tissues during development

Toshikatsu Nakabayashi, Youko Matsuoka, Hiroh Ikezawa and **Yukio Kimura** 171 Alkaline phosphodiesterase I release from eucaryotic plasma membranes by phosphatidylinositol-specific phospholipase C—IV. The release from *Cacia porcellus* organs

John R. D. Mitchell and **E. David Saggerson** 181 A study of glycerolphosphate acyltransferase in rat liver mitochondria–submitochondrial localization and some properties of the solubilized enzyme

Arthur J. Chu 189 Differential regulations of phosphatidylcholine biosynthesis in U937 cells by inhibitors of protein and tyrosine kinases

Pilar Velasco, Ramiro Barcia, Izaskun Ibarguren, Ana Maria Sieiro and **Juan Ignacio Ramos-Martinez** 195 Purification, characterization and kinetic mechanism of glucose-6-phosphate dehydrogenase from mouse liver

John J. Rejman, Jeffrey D. Turner and **Stephen P. Oliver** 201 Characterization of lactoferrin binding to the MAC-T bovine mammary epithelial cell line using a biotin–avidin technique

I. Myara, C. Cosson, N. Moatti and **A. Lemonnier** 207 Human kidney prolidase—purification, preincubation properties and immunological reactivity

G. Papa, E. Pessione, V. Leone and **C. Giunta** 215 *Agaricus bisporus* tyrosinase—I. Progress made in preparative methods

G. Papa, E. Pessione, C. Polimeni, V. Leone and **C. Giunta** 223 *Agaricus bisporus* tyrosinase—II. Characterization of hydroxylase and dehydrogenase activities

Ioan Florea Dumitru and **Marina Tamara Nechifor** 229 Decrease in yeast glucose-6-phosphate dehydrogenase activity due to oxygen free radicals

Masako Kuba, Tsuyoshi Okizaki, Hitoshi Ohmori and **Akira Kumon** 235 Nucleoside monophosphoramidate hydrolase from rat liver: purification and characterization

Sylvie Leparoux and **Bernard Colas** 247 Digestive juice of *Achatina achatina* as a potential source of transglycosylation enzymes

Susana Graciela Afonso, Sagrario Chinarro, Rafael Enriquez de Salamanca and **Alcira Maria del Carmen Batlle** — 255 δ-Aminolevulinic acid dehydratase inactivation by uroporphyrin I in light and darkness

Susana Graciela Afonso, Sagrario Chinarro, Rafael Enriquez de Salamanca and **Alcira Maria del Carmen Batlle** — 259 How the atmosphere and the presence of substrate affect the photo and non-photoinactivation of heme enzymes by uroporphyrin I

Ziran Zhan, Nadine C. Vincent and **Malcolm Watford** — 263 Transcriptional regulation of the hepatic glutaminase gene in the streptozotocin-diabetic rat

G. Pironcheva and **G. Russev** — 269 Isolation and purification of U7 snRNP particles

Tsutomu Irino, Makoto Matsushita, Yoshikatsu Sakagishi and **Tsugikazu Komoda** — 273 Phosphorylcholine as a unique substrate for human intestinal alkaline phosphatase

Sun-Ok Shin, Yasunaga Kameyama, Masamichi Yoshida, Fuyuakira Takatsu, Akira Shinkai, Hiroshi Inokuchi, Yasunori Saito and **Yutaka Yokota** — 279 Characterization of microsomal long-chain acyl-CoA hydrolase activity in the rat submandibular gland

Ritsuko Matsukawa, Mitsuo Hayakawa, Masataka Araya, Taizou Imamura and **Hisashi Takiguchi** — 287 Evidence that both Ca^{2+}-ATPase and (Ca^{2+} + Mg^{2+})-ATPase activities in the plasma membrane-rich fraction from bovine parotid gland reside on the same enzyme molecule

Vol. 26, No. 3

Minireviews

Yogesh C. Awasthi, Rashmi Sharma and **Sharad S. Singhal** — 295 Human glutathione *S*-transferases

R. E. Huber, M. N. Gupta and **S. K. Khare** — 309 The active site and mechanism of the β-galactosidase from *Escherichia coli*

Molham Al-Habori — 319 Cell volume and ion transport regulation

Mordechai Sokolovsky — 335 Endothelins and sarafotoxins: receptor heterogeneity

M. K. Agarwal — 341 Analysis of steroid receptor domains with the aid of antihormones

General Papers

Toichiro Hosoya, Hirokatsu Yoshimura, Naokazu Naito, Noriaki Suzuki, Koichi Sato and **Junta Takamatsu** — 351 Isolation of thyroid peroxidase from patients with Graves' disease and comparison with animal peroxidases

Gun I. L. Paatero, Torleif Trydal, Kaj A. Karlstedt, Dagfinn Aarskog and **Johan R. Lillehaug** — 367 Time-course study of 1,25-$(OH)_2$-vitamin D_3 induction of homologous receptor and c-*myc* in nontransformed and transformed C3H/10T1/2 cell clones

Annamaria Guagliardi, Valentina Nobile, Simonetta Bartolucci and **Mose' Rossi** — 375 A thioredoxin from the extreme thermophilic archaeon *Sulfolobus solfataricus*

N. A. Ismail, A. A. Shaheen and **M. M. El-Sawalhi** — 381 Combined effect of adenosine, alpha adrenergic and adenosine antagonists on serum insulin and insulin secretion from rat pancreatic islets

Sylvie Marcandier, Michèle Granger-Schnarr and **Alain J. Cozzone**	387	Phosphorylation of *Escherichia coli* proteins during the SOS response
F. B. Ong, W. Z. Wan Ngah, A. G. M. Top, B. A. K. Khalid and **N. A. Shamaan**	397	Vitamin E, glutathione *S*-transferase and γ-glutamyl transpeptidase activities in cultured hepatocytes of rats treated with carcinogens
I. Kosmopoulou, G. Koliakos, C. Haitoglou, D. Christodoulou, A. Dimitriadou and **A. Trakatellis**	403	Rat liver endoplasmic reticulum protein kinases
Hisae Nagasaki	415	Gender-related differences of mouse liver D-aspartate oxidase in the activity and response to administration of D-aspartate and peroxisome proliferators
S. Iossa, A. Barletta and **G. Liverini**	425	Different effects of cold exposure and cold acclimation on rat liver mitochondrial fatty acid oxidation and ketone bodies production
Amal A. Rady, Mostafa M. El-Sheekh and **B. Matkovics**	433	Temperature shift-induced changes in the antioxidant enzyme system of *Cyanobacterium synechocystis* PCC 6803
A. M. Kettlun, A. Alvarez, R. Quintar, M. A. Valenzuela, L. Collados, E. Aranda, A. Banda, L. Chayet, M. Ch̀iong, M. Mancilla and **A. Traverso-Cori**	437	Human placental ATP–diphosphohydrolase: biochemical characterization, regulation and function

Vol. 26, No. 4

Minireviews

Paul S. Foster	449	The role of phosphoinositide metabolism in Ca^{2+} signalling of skeletal muscle cells
Hans-Joachim Gabius	469	Non-carbohydrate binding partners/domains of animal lectins

General Papers

S. G. Roh, M. G. Baik and **Y. J. Choi**	479	The effect of lactogenic hormones on protein synthesis and amino acid uptake in rat mammary acinar cell culture at various physiological stages
Shigeru Hokari, Iwao Koyama, Kei Shioda and **Yoshikatsu Sakagishi**	487	Deoxyuridine triphosphatase in human hepatoma
Valerie Laplace Marieze, Mariele Briand, Saloua Badaoui, Marie-Helene Dadet and **Yves Briand**	491	Expression of lactic dehydrogenase isoenzymes in rabbit muscle during development
I. F. Dumitru and **Anca Dinischiotu**	497	Cock seminal plasma acid phosphatase: active site directed inactivation, crystallization and *in vitro* denaturation–renaturation studies
Jorge E. Azevedo and **Arnaldo Videira**	505	Characterization of a membrane fragment of respiratory chain complex I from *Neurospora crassa*. Insights on the topology of the ubiquinone-binding site
Jiankang Liu, Xiaoyan Wang and **Akitane Mori**	511	Immobilization stress-induced antioxidant defense changes in rat plasma: effect of treatment with reduced glutathione
Jeffrey Y. Su and **Kenneth B. Storey**	519	Regulation of rainbow trout white muscle phosphofructokinase during exercise

Graham S. Baldwin, Rosemary Chandler, Boris Grego, Michael R. Rubira, K. Lin Seet and **Janet Weinstock** 529 Isolation and partial amino acid sequence of a 78 kDa porcine gastrin-binding protein

Pingping Lou, Robert L. Gutman, Fei Wen Mao and **Phillip Greenspan** 539 Effects of phosphatidylserine on the oxidation of low density lipoprotein

Ashok K. Srivastava 547 Protein tyrosine kinase activity in cultured vascular smooth muscle cells (VSMC) from rat aorta

Grażyna Janiszewska, Lilla Lachowicz, Dariusz Jaskólski and **Ewa Gromadzińska** 551 Vanadium inhibition of human parietal lobe ATPases

Graeme Bradley, Ryno J. Naudé, Koji Muramoto, Fumio Yamauchi and **Willem Oelofsen** 555 Ostrich (*Struthio camelus*) carboxypeptidase A: purification, kinetic properties and characterization of the pancreatic enzyme

Miyako Ohta, Tsuyoshi Tanimoto and **Takao Hayakawa** 565 Multiplicity of dog kidney high-K_m aldose reductase and conversion mechanism into aldose reductase

Angelina Alvarado, D. Allan Butterfield and **Bernhard Hennig** 575 Disruption of endothelial barrier function: relationship to fluidity of membrane extracellular lamella

J. A. Oduma, E. N. Waindi, S. Gombe and **E. O. Wango** 583 Partial purification of a putative membrane bound androgen binding protein in the dog cauda epididymis

Lee A. Witters, Jane Widmer, Aimee Nicole King, Kathy Fassihi and **Francis Kuhajda** 589 Identification of human acetyl-CoA carboxylase isozymes in tissue and in breast cancer cells

S. C. Billi de Catabbi and **L. C. San Martin de Viale** 595 Studies on the active centre(s) of rat liver porphyrinogen carboxy-lyase. *In vivo* effect of hexachlorobenzene on decarboxylation sites(s) of porphyrinogens

Book Reviews 601

Vol. 26, No. 5

Review

Werner Hoffmann 607 Ependymins and their potential role in neuroplasticity and regeneration: calcium-binding meningeal glycoproteins of the cerebrospinal fluid and extracellular matrix

Minireview

I. Heleen van der Sijs and **Ed H. Wiltink** 621 Antiviral drugs: present status and future prospects

General Papers

J. Bartošová, I. Kalousek and **Z. Hrkal** 631 Binding of meso-tetra(4-sulfonatophenyl)porphine to haemopexin and albumin studied by spectroscopy methods

Tsuneo Miya, Masatoshi Tagawa, Noriko Kato, Kikuo Takahashi, Kenichi Sato and **Shinji Fujimura** 639 Prostaglandin E2/parathyroid hormone-induced suppression of alkaline phosphatase activity is mediated by protein kinase C

C. Garrido-del Solo, R. Varón, F. García-Cánovas and **B. H. Havsteen** 645 Kinetic analysis of the Michaelis–Menten mechanism in which the substrate and the product are unstable

J. M. Fuentes, M. L. Campo and **G. Soler** 653 Kinetics of manganese reconstitution and thiol group exposition in dialyzed rat mammary gland arginase

Giuliana Leoncini and **Enrica Buzzi** 661 Thrombin induces S-D-lactoylglutathione accumulation by enhancing platelet glycolytic pathway

Vanio Mitev, Alain Pauloin and **Louis-Marie Houdebine** 667 Purification and characterization of casein kinase II from lactating rabbit mammary gland

Ján Chandoga, Ladislav Hampl, Ladislav Turecký, Iveta Rojeková, Eva Uhliková and **Gabriel Hocman** 679 Cetaben is an exceptional type of peroxisome proliferator

Willy J. Malaisse, Monique Biesemans and **Rudolph Willem** 697 Generation of C_3- and C_2-deuterated L-lactic acid by human erythrocytes exposed to D-[1-^{13}C]glucose, D-[2-^{13}C]glucose and D-[6-^{13}C]glucose in the presence of D_2O

Harvey N. Rubin, Randy S. Stefanko and **Mostafa N. Halim** 703 Evidence that the 5′ end of rabbit globin mRNA is hybridized with its 3′ end

P. Chiodi, B. Ciani, S. Kentroti, F. Maccari, A. Vernadakis, L. Angelucci and **M. T. Ramacci** 711 Carnitine and derivatives in the central nervous system of chick embryo

Karamba J. Ceesay, Lynn R. Rider, Lawrence W. Bergman and **Martin T. Tuck** 721 The relationship between the trimethylation of lysine 77 and cytochrome *c* metabolism in *Saccharomyces cerevisiae*

Vol. 26, No. 6

Minireviews

Tatsuo Suzuki 735 Protein kinases involved in the expression of long-term potentiation

A. Del Corso, M. Cappiello and **U. Mura** 745 Thiol dependent oxidation of enzymes: the last chance against oxidative stress

General Papers

Mitsuru Orishiki, Yoshinori Matsuo, Mikio Nishioka and **Yoshiyuki Ichikawa** 751 *In vivo* administration of H_2 blockers, cimetidine and ranitidine, reduced the contents of the cytochrome *P*450IID (CYP2D) subfamily and their activities in rat liver microsomes

David Driscoll, William Ennis and **Patricio Meneses** 759 Human sciatic nerve phospholipid profiles from non-diabetes mellitus, non-insulin-dependent diabetes mellitus and insulin-dependent diabetes mellitus individuals. A ^{31}P NMR spectroscopy study

A. Greffard, J. C. Pairon, H. Terzidis-Trabelsi, J.-M. Heslan, J. Bignon, C. R. Lambre and **Y. Pilatte** 769 Initial characterization of human thymocyte sialidase activity: evidence that this enzymatic system is not altered during the course of T-cell maturation

Philippe Legrand, Daniel Catheline, Jean-Michel Hannetel and **Philippe Lemarchal** 777 Stearoyl-CoA desaturase activity in primary culture of chicken hepatocytes. Influence of insulin, glucocorticoid, fatty acids and cordycepin

R. Varón, B. H. Havsteen, M. Molina-Alarcón, S. E. Szedlacsek, M. García-Moreno and **F. García-Cánovas** 787 Kinetic analysis of reversible closed bicyclic enzyme cascades covering the whole course of the reaction

Nerida Cole and **Gregory B. Ralston** 799 Enhancement of self-association of human spectrin by polyethylene glycol

Michiro Otaka, Hideaki Itoh, Toshiyuki Kuwabara, Akira Zeniya, Shusei Fujimori, Setsuya Otani, Yohtalou Tashima and **Osamu Masamune** 805 Induction of heat shock protein and prevention of caerulein-induced pancreatitis by water-immersion stress in rats

Raymonde Joubert-Caron, Michel Caron, Pascal Bochet, Ahmed Chadli, Pierre Delaporte, Edmond Schuller and **Dominique Bladier** 813 Oligoclonal β-galactoside-binding immunoglobulins antigenically related to 14 kDa lectin in human serum and cerebrospinal fluid: purification and characterization

Satoko Isemura and **Eiichi Saitoh** 825 Inhibitory activities of partially degraded salivary cystatins

Vaughan Oosthuizen, Ryno J. Naudé and **Willem Oelofsen** 833 Ostrich α-amylase: purification and characterization of the pancreatic isoenzymes

Cheryl R. Kuhn, Ryno J. Naudé, James Travis and **Willem Oelofsen** 843 The isolation and partial characterization of α_1-proteinase inhibitor from the serum of the ostrich (*Struthio camelus*)

Book Reviews 855

Corrigendum 857

Vol. 26, No. 7

Minireviews

Juhani Jänne, Juha-Matti Hyttinen, Teija Peura, Minna Tolvanen, Leena Alhonen, Riitta Sinervirta and **Maria Halmekytö** 859 Transgenic bioreactors

H. Degens and **J. H. Veerkamp** 871 Changes in oxidative capacity and fatigue resistance in skeletal muscle

General Papers

Andrew G. Stephen, Roy Powls and **Robert J. Beynon** 879 Cysteine protease activity in arils of *Thaumatococcus daniellii*: relationship between the sweet protein thaumatin and cysteine protease activity

F. Panara, A. Angiolillo, I. Di Rosa, A. Fagotti, S. Contenti, F. Simoncelli, S. Lorvik and **R. Pascolini** 885 Purification and some properties of a Mg^{2+}-activated acid phosphatase from rat testis

S. Blachowski, T. Motyl, Katarzyna Grzelkowska, Maria Kasterka, A. Orzechowski and **Bożena Interewicz** 891 Involvement of polyamines in epidermal growth factor (EGF), transforming growth factor (TGF)-α and -β1 action on culture of L6 and fetal bovine myoblasts

Roger D. Smith 899 The anti-proliferative action of transforming growth factor-β_1 on a rat intestinal epithelial cell line (RIE-1) is dependent on cell population density and culture passage number

Junko Sato, Ritsuko Matsukawa and **Hisashi Takiguchi** 905 The possibility that Ca^{2+}-ATPase from the plasma membrane-rich fraction of bovine parotid gland is ecto-Ca^{2+}-dependent nucleoside triphosphatase

Maria Smyth and **Gerard O'Cuinn** 913 Dipeptidyl aminopeptidase activities of guinea-pig brain

D. Bischof and **K. D. Hammond** 923 Effect of tumour promoting agents on protein phosphorylation in human placenta

Alexander D. Dergunov and **Yliya Y. Vorotnikova** 933 The interaction of human serum albumin in the native and fully reduced states with apolipoprotein E, serum amiloid protein and very low density lipoproteins from human plasma

Oded Zamir, William O'Brien, Robert Thompson, Duane C. Bloedow, Josef E. Fischer and **Per-Olof Hasselgren** 943 Reduced muscle protein breakdown in septic rats following treatment with interleukin-1 receptor antagonist

E. R. S. Roldan, R. Martinez-Dalmau and **F. Mollinedo** 951 Diacylglycerol and alkylacylglycerol stimulate ram sperm phospholipase A_2

Vol. 26, No. 8

Minireview

John M. Dickenson and **Stephen J. Hill** 959 Interactions between adenosine A_1- and histamine H_1-receptors

General Papers

Nerida Cole and **Gregory B. Ralston** 971 Quantitative assessment of the association of the α-I fragment of spectrin with oligomers of intact spectrin

Masahiro Tomita, Hiroshi Obara, Yoshiki Takesue, Hiro-omi Tamura, Shigetoshi Miyajima, Ryo Taguchi and **Hiroh Ikezawa** 977 Purification of glycosylphosphatidylinositol-anchoring aminopeptidase N from the plasma membrane of larval midgut epithelial cells of the silkworm, *Bombyx mori*

László Braun, Tamás Garzó, Pál Riba, József Mandl and **Miklós Péter Kalapos** 987 Methylglyoxal and cell viability

Christos A. Panagiotidis, Shu-Ching Huang and **Evangelos S. Canellakis** 991 Post-translational and transcriptional regulation of polyamine biosynthesis in *Escherichia coli*

Shigenobu Umeki 1003 Prostaglandin E_1 and analogs of prostacyclin influencing superoxide production by the human neutrophil NADPH oxidase system

Atsushi Hongo, Shuji Seki, Kosuke Akiyama and **Takafumi Kudo** 1009 A comparison of *in vitro* platinum–DNA adduct formation between carboplatin and cisplatin

Thierry Chardot and **Jean-Claude Meunier** 1017 Purification and principal properties of the casein kinase II purified from the yeast *Yarrowia lipolytica*

H. Takeshita, T. Yasuda, D. Nadano, E. Tenjo, K. Sawazaki, R. Iida and **K. Kishi** 1025 Detection of deoxyribonucleases I and II (DNases I and II) activities in reproductive organs of male rabbits

Emel Arınç, Roya P. K. Pasha, Orhan Adalı and **Nilay Başaran** 1033 Stimulatory effects of lung cytochrome *b*5 on benzphetamine *N*-demethylation in a reconstituted system containing lung cytochrome *P*450LgM2

V. N. Nikandrov, G. V. Vorobyova and **N. V. Demidchik** 1043 The state of tryptophan-containing sites of human, bovine and rabbit plasminogens with changing solution pHs

Takahiko Kumada, Yoshiko Banno, Hideo Miyata and **Yoshinori Nozawa** 1049 Phosphoinositide hydrolysis in Ki-*ras*-transformed fibroblasts stimulated by platelet-derived growth factor and bradykinin

Vol. 26, No. 9

Minireview

Nick C. de Vetten and **Robert J. Ferl** 1055 Transcriptional regulation of environmentally inducible genes in plants by an evolutionary conserved family of G-box binding factors

General Papers

Miklós Péter Kalapos, József Mandl, Gábor Bánhegyi, Ferenc Antoni* and **Tamás Garzó** 1069 Net glucose production from acetone in isolated murine hepatocytes. The effect of different pretreatments of mice

Ben J. van der Walt, Johann M. van Zyl and **André Kriegler** 1081 Different oxidative pathways of isonicotinic acid hydrazide and its meta-isomer, nicotinic acid hydrazide

J. C. T. Vanhooren, S. Asselberghs, H. J. Eyssen, G. P. Mannaerts and **P. P. Van Veldhoven**	1095	Activation of 3-methyl-branched fatty acids in rat liver
Miki Hara-Yokoyama, Hiroshi Sugiya and **Shunsuke Furuyama**	1103	Possible involvement of adenylylation in the modification of a 26 kDa protein in rat parotid acinar cells
John P. Harrington and **Rodgers L. Hicks**	1111	Spectral analysis of Fe(III)-complex reduction by hemoglobin: possible mechanisms of interaction
Zdzisław Bereznowski	1119	Effect of methyl methacrylate on mitochondrial function and structure
A. M. Silvestro and **R. H. Ashley**	1129	Solubilization, partial purification and functional reconstitution of a sheep brain endoplasmic reticulum anion channel
José Pedraza-Chaverrí and **Ana Elena Arévalo**	1139	Tissue lipoperoxidation and glutathione peroxidase activity in puromycin aminonucleoside injected rats
Maria Malicka-Blaszkiewicz, Ilona Majcher and **Dorota Nowak**	1147	DNase-I-like enzyme from the carp liver—inhibition by muscle and endogenous actin
Smaragdi Antonopoulou, Constantinos A. Demopoulos, Christos Iatrou, George Moustakas and **Panos Zirogiannis**	1157	Platelet-activating factor acetylhydrolase (PAF-AH) in human kidney

Vol. 26, No. 10/11

Compendium

Ian G. Giles	1163	A compendium of reviews in biochemistry and molecular biology published in the second half of 1993

Minireviews

Jean A. Boutin	1203	Tyrosine protein kinase inhibition and cancer
Peter Schubert, Karl A. Rudolphi, Bertil B. Fredholm and **Yoichi Nakamura**	1227	Modulation of nerve and glial function by adenosine—role in the development of ischemic damage
Michio Matsui and **Hiroshi Homma**	1237	Biochemistry and molecular biology of drug-metabolizing sulfotransferase
P. G. Stockley, N. J. Stonehouse and **K. Valegård**	1249	Molecular mechanism of RNA phage morphogenesis
Nobuo Shimojo	1261	Cytochrome *P*450 changes in rats with streptozocin-induced diabetes
Daniel D. Carson, Larry H. Rohde and **Gulnar Surveyor**	1269	Cell surface glycoconjugates as modulators of embryo attachment to uterine epithelial cells

General Papers

Stephen J. Chambers, Nigel Lambert and **Gary Williamson**	1279	Purification of a cytosolic enzyme from human liver with phospholipid hydroperoxide glutathione peroxidase activity
Maria Smyth and **Gerard O'Cuinn**	1287	Alanine aminopeptidase of guinea-pig brain: a broad specificity cytoplasmic enzyme capable of hydrolysing short and intermediate length peptides
Carlos D. Figueroa and **Peter V. Taberner**	1299	Pancreatic islet hypertrophy in spontaneous maturity onset obese–diabetic CBA/Ca mice

V. I. Lushchak and **K. B. Storey** 1305 Effect of exercise on the properties of AMP-deaminase from trout white muscle

Vaughan Oosthuizen, Ryno J. Naudé, Willem Oelofsen, Koji Muramoto and **Hisao Kamiya** 1313 Ostrich pancreatic α-amylase: kinetic properties, amino terminal sequence and subsite structure

Vol. 26, No. 12

Editorial Announcement iii

Minireviews

Alexander A. Boldyrev and **Peter J. Quinn** 1323 E1/E2 type cation transport ATPases: evidence for transient associations between protomers

Tamie Nakajima and **Rui-Sheng Wang** 1333 Induction of cytochrome *P*450 by toluene

Patricia M. Sokolove 1341 Interactions of Adriamycin aglycones with mitochondria may mediate Adriamycin cardiotoxicity

Howard H. T. Hsu 1351 Mechanisms of initiating calcification. ATP-stimulated Ca- and Pi-depositing activity of isolated matrix vesicles

General Papers

Richard M. Eglen, Helen Reddy and **Nikki Watson** 1357 Selective inactivation of muscarinic receptor subtypes

B. Overdijk, G. J. van Steijn and **W. R. Den Tandt** 1369 Partial purification and further characterization of the novel endoglucosaminidase from human serum that hydrolyses 4-methylumbelliferyl-*N*-acetyl-β-D-chitotetraoside (MU-TACT hydrolase)

Lidia Susana Araujo, Maria Elisa Lombardo and **Alcira M. del C. Batlle** 1377 Inhibition of porphobilinogenase by porphyrins in *Saccharomyces cerevisiae*

Rajat Sandhir and **Kiran Dip Gill** 1383 Calmodulin and cAMP dependent synaptic vesicle protein phosphorylation in rat cortex following lead exposure

Arnaldo Videira and **Jorge E. Azevedo** 1391 Two nuclear-coded subunits of mitochondrial complex I are similar to different domains of a bacterial formate hydrogenlyase subunit

Piotr Laidler, Anna Litynska, Maria Galka-Walczak and **Boguslaw Wojczyk** 1395 Characterization of human arylsulfatase A glycans

William M. Brown and **Gareth R. Taylor** 1403 The 5′-sequence of the murine *Hox-b*3 (*Hox*-2.7) gene and its intron contain multiple transcription-regulatory elements

Yumiko Komori, Toshiaki Nikai, Chie Sekido, Minako Fuwa and **Hisayoshi Sugihara** 1411 Biochemical characterization of hemorrhagic toxin from *Crotalus viridis viridis* (Prairie rattlesnake) venom